

2020 Annual Report - MS4 General Permit

City of Danbury

Danbury, Connecticut

March 2021



Prepared by:



146 Hartford Road Manchester, CT 06040







MS4 General Permit City of Danbury 2020 Annual Report

Existing MS4 Permittee Permit Number GSM 000080

January 1, 2020 – December 31, 2020

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This report documents City's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2020 to December 31, 2020.

Part I: Summary of Minimum Control Measure Activities

1. Public Education and Outreach (Section 6 (a)(1) / page 19)

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-1 Implement public education and outreach	Complete/ Ongoing	The City's website includes a number of educational materials/links. Since the 2019 Annual Report, educational materials have been maintained.	Update and maintain City website to include educational materials.	Public Works	Ongoing	Initially Completed Feb 1, 2018	 Education Materials/Links: Garbage Pickup & Recycling Information EPA – After the Storm EPA – Make Your Home the Solution to Stormwater Pollution CT NEMO MS4 Guide River Smart CT Relevant Sections from the Code of Ordinances EPA – Do Your Part, Be Septic Smart MARC – Wash Your Car the Right Way City of Danbury IDDE Ordinance HRRA – Household Hazardous Waste HRRA – Recycling Education West COG – Stormwater Activites







BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-2 Address education/ outreach for pollutants of concern	Complete/ Ongoing	Continue to include education materials/links on the City's website addressing impaired waters and stormwater pollutants of concern.	Select educational materials appropriate for impaired waters and stormwater pollutants of concern.	Public Works	Ongoing	Initially Completed Feb 15, 2018	

1.2 Describe any Public Education and Outreach activities planned for the next year, if applicable.

- Continue to collaborate with the News Times to print environmental articles.
- Continue to work with/support the Candlewood Lake Authority, Lake Kenosia Commission, Still River Alliance, Housatonic Valley Association, Tarrywile Park Authority, and other local and regional organizations with environmental public education and outreach programs.
- Continue the annual Public Works Awareness Day at which school children are bussed to the Public Works Complex for demonstrations, etc. Children are provided recycling educational materials, etc.
- Work with Candlewood Lake Authority on an "as needed" basis as they develop their participitation in "Clear Choices Clean Water" campaigne (e.g. posting information on City's website, etc.).

1.3 Details of activities implemented to educate the community on stormwater

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
		Activities		
Donation of 30 trees to City of Danbury for Spring 2020 planting season	All city residents	Donation of trees	N/A	The Church of Jesus Christ of The Latter-day Saints / City of Danbury
Annual Candlewood Lake Soil Testing Program (Canceled for 2020 due to COVID-19)	Residents along shore of lake	Promoting Smart Fertilization	Nutrients	Candlewood Lake Authority and Candlewood Watershed Initiative
Annual Clean City Danbury Day (Canceled for 2020 due to COVID-19)	Several Hundred Volunteers expected	Litter Cleanup	N/A	Mayor's Office and Public Works
Annual Public Works Awareness Day (Canceled for 2020 due to COVID-19)	Approximately 100 Grammar School Students expected	Water and Recycling	N/A	Public Works







Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Annual Candlewood Lake Cleanup (Canceled for 2020 due to COVID-19)	Approximately 100 Volunteers expected	Litter Cleanup	N/A	Candlewood Lake Authority
National Trail Days Cleanup at Tarrywile Park (Canceled for 2020 due to COVID-19)	Approximately 1 dozen Volunteers expected	Litter Cleanup	N/A	Tarrywile Park
Regional Lake Communities "What Can We Do to Help Manage the Water Quality of Connecticut's Lakes" (Canceled for 2020 due to COVID-19)	All City Residents	Symposium about the water quality of local lakes, including algal blooms	N/A	Western Connecticut State University
Annual Citizen Government Academy (Canceled for 2020 due to COVID-19)	Approximately 2 dozen Volunteers expected	MS4 Stormwater Program (with handouts)	N/A	Public Works
City of Danbury's Clean Start Program (Ongoing)	Residents of the Danbury homeless community (30+ participants, 1-2 days a week)	Litter Cleanup	N/A	Mayor's Office, the Jericho Partnership and City Unit
Adopt a Street Program for Litter Control (Ongoing)	58 Streets	Litter Control	N/A	Mayor's Office
Broadview Middle School "Schoolyard Habitat" Garden (Ongoing) Started June 2011	Broadview Middle School Students	Native Plants & Good Environmental Practices	N/A	City of Danbury Board of Education
Household Hazardous Waste Collection Days 3 Collection Days (Spring, Summer, & Fall) Information provided on City's Website	All City Residents (518 vehicles participated)	Proper Disposal of Hazardous Waste	N/A	Housatonic Resources Recovery Authority (HRRA) / Public Works
Prescription Drug Take Back Days (Canceled for 2020 due to COVID-19) *Drug collection boxes are located in Danbury Police Headquarters year-round.	All City Residents	Proper Disposal of Prescription Drugs	Contaminants of emerging concern	Police Department / Federal Drug Enforcement Agency
Electronic Waste Collection (Ongoing)	All City Residents (63.63 tons)	Proper Disposal of Electronic Waste	N/A	Housatonic Resources Recovery Authority (HRRA)







Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
		Handouts	'	
EPA Make Your Home the Solution to Stormwater Pollution Brochure Also provided on City's Website	All City Residents (1 brochure taken)	Stormwater Management and Pollution Prevention	Petroleum, nutrients, toxic chemicals, bacteria, chlorine	Public Works / US Environmental Protection Agency
Ferris Mulch Brochures Distributed in Front Lobby of City Hall	All City Residents (21 brochures taken)	Leaf Disposal Program	Nutrients	Ferris Mulch Products
MARC Wash Your Car the Right Way Brochure	All City Residents (0 brochures taken)	Use biodegradable cleaners, minimize water usage, etc.	Nutrients	Mid-America Regional Council (MARC)
EPA Stormwater and the Construction Industry Poster	All City Residents (0 copies taken)	Stormwater Management and Pollution Control	Soil Erosion / Siltation	US Environmental Protection Agency
Winters Brothers Waste Recycling Mom & Pop Drop-off	All City Residents (17 brochures taken)	Litter Prevention	N/A	Winter Brothers
	City V	Vebsite Resources		
Candlewood Lake Authority Website Stormwater Management Property Design Lake Friendly Living Tips	Candlewood Lake Residents	Stormwater Management and Pollution Prevention	Petroleum, nutrients, toxic chemicals, bacteria	Candlewood Lake Authority
Lake Kenosia Commission Website What you can do to help the lake Lake Kenosia Buffer Gardens Project Promising non-chemical weed management alternatives A non-technical summary of current environmental conditions in Lake Kenosia	Lake Kenosia Residents	Stormwater Management and Pollution Prevention	Nutrients and toxic chemicals	Lake Kenosia Commission
CT NEMO MS4 Guide Link Provided on City's Website	All City Residents	Stormwater Regulations	N/A	CT NEMO MS4
River Smart CT Link Provided on City's Website	All City Residents	Pollution Prevention	N/A	River Smart CT
EPA After the Storm Brochure Provided on City's Website and in Front Lobby of City Hall	All City Residents	Stormwater Management and Pollution Prevention	N/A	US Environmental Protection Agency
Outreach Training: Fats, Oils, Grease Provided on City's Website	All City Residents	Fats, Oils, and Grease BMPs	F.O.G.	Public Works / Public Utilities
Fats, Oils, Grease (F.O.G.): What not to put down your drain! Provided on City's Website.	All City Residents	Fats, Oils, and Grease BMPs	F.O.G.	Public Works / Public Utilities







Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Best Management Practices Check List Provided on City's Website	All City Residents	Fats, Oils, and Grease BMPs	F.O.G.	Public Works / Public Utilities
Notification of ByPass Event to Public Utilities Information Provided on City's Website	All City Residents	How to report a bypass event	Bacteria, nutrients	Public Works / Public Utilities
Department of Public Health Fact Sheet Sewage Backups Provided on City's Website	All City Residents	Preventing Sewage Backups	Bacteria, nutrients	Public Works / Public Utilities
Do Your Part, Be Septic Smart! Provided on City's Website	All City Residents	Septic System BMPs	Nutrients	US Environmental Protection Agency
Ferris Mulch Brochures and Web Link Provided on City's Website	All City Residents	Leaf Disposal Program	Nutrients	Ferris Mulch Products
 City Website Postings Spring Leaf Pickup, Apr. 13 – May 22, 2020 Fall Leaf Pickup, Oct. 19 – Nov. 22, 2020 Christmas Tree Pickup, January 2, 2020 	All City Residents	Leaf and Christmas Tree Disposal Programs	Nutrients	Public Works
		City News		-
The New Times – Experts Share insights on pandemic's impact on waterways	All City Residents	Impact of fertilizers, pesticides, litter.	N/A	Save the Sound / Housatonic Valley Association
The News Times – Lawn Care tips to preserve lake	All City Residents	Impact of fertilizers, landscaping, erosion.	N/A	Candlewood Watershed Initiative
The News Times – <i>Celebrate #EarthDayAtHome</i>	All City Residents	Encourages protecting water quality and healthy rivers and streams.	N/A	Trout Unlimited
The News Times – Danbury debuts new park for pups to play and bark	All City Residents	Notes barrel and dispensers for waste removal.	N/A	City of Danbury
The News Times – Adopt a Street Program	All City Residents	Volunteer litter cleanup	N/A	Danbury Lions
The News Times – Transfer Station Restrictions	All City Residents	Information for construction and demolition waste disposal to Oak Ridge in Danbury.	N/A	New town Transfer Station







2. Public Involvement/Participation (Section 6(a)(2) / page 21)

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2-1 Continue availability of Final Stormwater Management Plan to the public	Complete	The Stormwater Management Plan was made available to the public: Hard copies were made available in City Office.	Made draft Stormwater Management Plan available electronically on the City website and paper copies available in City office. Published notice of availability on website.	Public Works, Engineering	Apr 3, 2017	Apr 3, 2017	
	Complete /Ongoing	The final Stormwater Management Plan was made available to the public: Hard copies were made available in City Hall.	Make final Stormwater Management Plan available electronically on the City website and paper copies available in City Hall.	Public Utilities, Engineering	Jul 1, 2017	Initially completed Jul 1, 2017	
2-2 Comply with public notice requirements for Annual Reports	Complete	A public notice was posted to the City's website on January 20, 2021. The draft Annual Report will be made available on February 15, 2021.	Make draft Annual Report available electronically on the City website and paper copies available in City office by April 1, 2021. Publish notice of availability on website or local newspaper.	Public Works, Engineering	Feb 15, 2021	Anticipate completing by Feb 13, 2021	
	In Progress	The City has prepared the 2020 Annual Report and will submit it to DEEP, as well as post it on the City website by the April 1, 2021 deadline.	Make final Annual Report available electronically on the City website and paper copies available in City Hall.	Public Works, Engineering	April 1, 2021	Anticipate completing by April 1, 2021	







2.2 Describe any Public Involvement/Participation activities planned for the next year, if applicable.

- Continue to hold stormwater committee meetings regularly to review SMP implementation progress.
- Continue to work with the Candlewood Lake Authority, the Lake Kenosia Commission, the Still River Alliance, Housatonic Valley Association, Tarrywile Park Authority, and other local and regional organizations with environmental public involvement activities.
- Provide public notice of annual report.
- Continue to provide neighborhood recycling station and drop-off for City residents.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan to public	Yes	Jul 1, 2017	www.danbury-ct.gov/stormwatermanagement/
Availability of 2020 Annual Report announced to public	Yes	Jan 20, 2021	www.danbury-ct.gov/ ("READ MORE": www.danbury- ct.gov/stormwatermanagement/)







3. Illicit Discharge Detection and Elimination (Section 6(a)(3) and Appendix B / page 22)

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	Complete	The City has completed a written IDDE program using the CT IDDE program template.	Prepare IDDE Plan for the City.	Public Works, Planning & Zoning Dept, and Corporation Counsel's Office	Jul 1, 2018	Aug 22, 2019	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	In progress	The City mapping includes catch basins with unique identification numbers, pipes with pipe sizes, and Cityowned detention basins. The City has completed catchment delineations within the priority area.	Update CAD/GIS storm system mapping to include required elements listed on page 24 of 50 and on pages 3 & 4 in Appendix B of the General Permit, including catchment delineations.	Public Works, Mapping-GIS	Jul 1, 2019	Anticipate completion by Jul 1, 2021	
	Complete	The City has compiled a database/spreadsheet of outfalls with pipe size, material, body of water, and longitude/ latitude location.	Develop a list (database or spreadsheet) of stormwater outfalls in priority areas.	Public Works, Mapping-GIS	Jul 1, 2019	Sep 2019	
3-3 Implement citizen reporting program	Complete	See table below for details.	Establish a citizen reporting hotline and advertise it on the City website and in municipal offices.	Public Works, UNIT, 311	Jul 1, 2017	Jul 1, 2017	
3-4 Establish legal authority to prohibit illicit discharges	Complete	The City has enacted an Illicit Discharge Ordinance.	Review City's existing ordinance related to illicit discharge and illegal connection and revise, as necessary.	Planning & Zoning Dept, Public Works, Corporation Counsel's Office, Health Dept	Jul 1, 2018	Aug 8, 2019	The City ordinace has been placed on the City's "Stormwater Management" web page.







ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-5 Develop record keeping system for IDDE tracking	Complete/ Ongoing	The City will continue to use their Sewer By-Pass Tracking Log for their IDDE tracking recordkeeping system.	Develop IDDE tracking recordkeeping system.	Public Works	Jul 1, 2017	Jul 1, 2017	
3-6 Address IDDE in areas with pollutants of concern	Not Started		Identify areas with high potential for septic system failure.	Health and Human Services, Public Works	Not specified	Anticipate completing by end of permit	
3-7 Conduct SSO inventory	Complete/ Ongoing	The City Health and Human Services Department tracks septic system permit repairs.	Identify areas with high potential for septic system failure.	Health and Human Services, Public Utilities	Ongoing	Initially completed Oct 1, 2019	Reason for addition: Part of the IDDE Program.
3-8 Assess and prepare a priority ranking of catchments	Complete	The City contracted with a consultant to prioritize catchments which was completed on May 21, 2020.	Classify each catchment within priority areas into an excluded, problem, high priority, or low priority catchment.	Public Works, Mapping-GIS	Jul 1, 2019	May 21, 2020	Reason for addition: Part of the IDDE Program.
	Complete		Rank catchments within each category (except excluded catchments) based on screening factors found on page 6 & 7 in Appendix B of the General Permit.	Public Works, Mapping-GIS	Jul 1, 2019	May 21, 2020	Reason for addition: Part of the IDDE Program.
3-9 Conduct outfall and interconnection screening and sampling	In Progress	The City has contracted with a consultant to perform dry weather screening and sampling, as well as impaired waters outfall monitoring.	Conduct dry weather screening and sampling (where flowing) of every MS4 outfall and interconnection (except for excluded and Problem Catchments)	Public Works	Not specified	Anticipate completing by Jun 1, 2021	Reason for addition: Part of the IDDE Program.







ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-10 Conduct catchment investigations and remove illicit discharges	Not Started	The City has contracted with a consultant to perform catchment investigations.	Evaluate catchments for System Vulnerability Factors and begin catchment investigations.	Public Works	Not specified	Anticipate completing by Jun 1, 2022	Reason for addition: Part of the IDDE Program.
	Not Started		Where System Vulnerability Factors are present, conduct manhole inspections. Isolate and verify sources. Remove identified illicit discharges and conduct confirmatory outfall screening.	Public Works	Not specified	Anticipate completing by Jun 1, 2022	Reason for addition: Part of the IDDE Program.

Extra space for describing above BMP activities, if needed:

ВМР	
3-3 Implement citizen reporting program	 The City continues to maintain their three methods for Citizen reporting: Phone number on the Public Utilities website for submitting a report of a ByPass/SSO event. Phone number on the Unified Neighborhood Inspection Team (UNIT) website for submitting a service request regarding illegal dumping. The CityLine 311 hotline. Information on the CityLine 311 program is posted on the City's website and is included in the City's Discover Danbury Annual Report available at City Hall. The City Line 311 program includes a call center, live chat, and email address to receive citizens' reports. Information on the program is provided on its own webpage reached through "Departments", as well as the "Stormwater Management" web page.

3.2 Describe any IDDE activities planned for the next year, if applicable.

- Continue implementing the written IDDE program.
- Assess and priority rank outfalls, begin dry weather outfall screening, and begin catchment investigations.
- Continue to map stormwater drainage structures and piping network.
- Continue to maintain CityLine 311 phone, live chat, and email address hotline services to respond to illicit discharges.
- Continue to track IDDE through Collection System By-Pass Tracking spreadsheet.







3.3 List of citizen reports of suspected illicit discharges received during this reporting period.

Date of Report	Location / suspected source	Response taken
3/14/2018	10 Morton St / Roots and Grease	Jet/vac truck
4/17/2019	51 Main St / Grease	Jet/Vac truck
6/12/2019	1 Stacy Rd / Hit Sewer Main	Stop Pump/Vac truck
7/16/2019	128 E Liberty St / Grease	Jet/Vac truck
8/12/2019	15-A Auburn St / Suds observed in onsite watercourse during a rain event	Health Department and UNIT investigated area and found no issues
8/23/2019	37 Rocky Glen / Roots	Jet/Vac truck
3/17/2020	Old Brookfield Rd/Federal rd / Rags and Wipes	Jet/Vac truck
9/15/2020	71 Old Ridgebury Rd / Bucket in sewer	Remove bucket
11/7/2020	1 Knapps Lane / Crushed pipe	Pipe repaired
11/9/2020	15 Taylor St / Grease	Jet/Vac truck

3.4 Provide a record of illicit discharges occurring during the reporting period and SSOs occurring July 2012 through end of reporting period using the following table.*

Location (Lat long/ street crossing /address and receiving water)	Date and duration of occurrence	Discharge to MS4 or surface water	Estimated volume by-passed	Estimated volume discharged	Known or suspected cause / Responsible party	Corrective measures planned and completed (include dates)	Sampling data (if applicable)
High Ridge Rd at Scuppo Rd	1/5/2017	No	100 Gal	0 Gal	Grease	High pressure jet and grease treatment (1/4/17)	N/A
1 Eighth Ave	1/21/2017	No	10,500 Gal	0 Gal	Pipe Failure	ByPass pumping and repaired piped (2/21/17)	N/A
11 Foster St	3/6/2017	No	8,500 Gal	0 Gal	Grease	High pressure jet and grease treatment. (3/6/17)	N/A
Main St	5/27/2017	No	500 Gal	0 Gal	Grease	High pressure jet and grease treatment (5/27/17)	N/A
155 Deer Hill Ave	6/6/2017	No	30 Gal	0 Gal	Roots	Jet/vac truck and root treatment (6/6/17)	N/A
12 Valley View Dr	8/15/2017	No	150 Gal	0 Gal	Roots	Jet/vac truck and root treatment (8/15/17)	N/A
5 Scuppo Rd	9/1/2017	Catch Basin	50 Gal	50 Gal	Mechanical Failure	Vac truck and service pumps (9/1/17)	N/A
Padanaram Rd & Rt 37	10/2/2017	No	400 Gal	0 Gal	Construction Damage	Plug main to repair (10/2/17)	N/A
Sleepy Hollow Dr	10/3/2017	Retention Pond	500 Gal	0 Gal	Roots	Cut and treat roots (10/3/17)	N/A







Location (Lat long/ street	Date and duration of	Discharge to MS4 or surface	Estimated volume	Estimated volume	Known or suspected cause /	Corrective measures planned and completed (include dates)	Sampling data (if
crossing /address and receiving water)	occurrence	water	by-passed	discharged	Responsible party	(include dates)	applicable)
Riverview Dr siphon	10/17/2017	Still River	350 Gal	0 Gal	Paper Products	Jet/vac truck and routine inspection (10/17/17)	N/A
Eighth Ave & White St	10/29/2017	No	500 Gal	0 Gal	Rags	Jet/vac truck and educate locally (10/29/17)	N/A
10 Morton St	3/14/2018	No	50 Gal	0 Gal	Roots and Grease	Jet/vac truck (3/14/2018)	N/A
65 Sleepy Hollow Dr	4/21/2018	No	1,500 Gal	0 Gal	Roots	Jet/vac truck (4/21/2018)	N/A
30 Housman St	6/6/2018	No	25 Gal	0 Gal	Roots	Jet/vac truck (6/6/2018)	N/A
2 Lawncrest	7/7/2018	No	100 Gal	0 Gal	Resident	Vac truck (7/7/2018)	N/A
12 Valley View Dr	11/20/2018	No	100 Gal	0 Gal	Roots	Vac truck/cut roots (11/20/2018)	N/A
51 Main St	4/17/19	No	500 Gal	0 Gal	Grease	Jet/Vac truck (4/17/19)	N/A
1 Stacy Rd	6/12/19	Yes	500 Gal	500 Gal	Hit Sewer Main	Stop Pump/Vac truck (6/12/19)	N/A
128 E Liberty St	7/16/19	No	200 Gal	0 Gal	Grease	Jet/Vac truck (7/16/19)	N/A
37 Rocky Glen	8/23/19	No	500 Gal	0 Gal	Roots	Jet/Vac truck (8/23/19)	N/A
COD Sewer Plant	3/7/2020	No	250 Gal	0 Gal	unknown	Repair Digester (3/7/2020)	N/A
136 Sawmill Road	3/11/2020	Yes	4000 Gal	4000 Gal	Pipe failure	Vac Truck/ check bolts (3/11/2020)	N/A
Old Brookfield Road/Federal Road	3/17/2020	No	250 Gal	0 Gal	Rags/wipes	Jet/Vac/Educate public (3/17/2020)	N/A
71 Old Ridgebury Rd	9/15/2020	No	50 gal	0 Gal	Bucket in sewer	Remove Bucket (9/15/2020)	N/A
1 Knapps Lane	11/7/2020	No	250 Gal	0 Gal	Crushed pipe	Repair pipe (11/7/2020)	N/A
15 Taylor Street	11/9/2020	No	50 Gal	0 Gal	Grease	Jet/Vac/ Educate public (11/9/2020)	N/A

^{*}See attached Collection System By-Pass Event/Complaint Tracking Logs for sanitary sewer overflows occurring in 2012-2016.







3.5 Briefly describe the method used to track illicit discharge reports, responses to those reports, and who was responsible for tracking this information.

Illicit discharge reports are tracked through CityLine 311, Utilities Phone Number, and the Unified Neighborhood Inspection Team (UNIT). With the exception of UNIT services requests, reports are sent to the Director of Public Works. DPW investigates any reports received and if illicit discharges are found. DPW works with Land Use, the Town Sanitarian, and Code Enforcement to eliminate the discharge. The UNIT responds to service requests for debris/garbage cleanup on properties. In 2020, approximately 270 properties containing garbage and debris were cleaned due to UNIT intervention.

3.6 Provide a summary of actions taken to address septic failures using the table below.

See the attached record of septic system repair permits for the year 2020. The Health Department is working to improve their record keeping system for documenting septic failures as they relate to discharges to the MS4 and surface water bodies.

3.7 IDDE reporting metrics

3.7 IDDE reporting metrics	
Metrics	
Estimated or actual number of MS4 outfalls	1,150* (1,879 total)
Estimated or actual number of interconnections	Estimated 50
Outfall mapping complete	99%
Interconnection mapping complete	99%
System-wide mapping complete (detailed MS4 infrastructure)	99%
Outfall assessment and priority ranking complete	100%
Dry weather screening of all High and Low priority outfalls complete	0%
Catchment investigations complete	0%
Estimated percentage of MS4 catchment area investigated	0%

^{*}Value does not include State or privately owned outfalls.

3.8 Briefly describe the IDDE training for employees involved in carrying out IDDE tasks including what type of training is provided and how often is it given (minimum once per year).







Employee IDDE training was provided by Fuss & O'Neill, Inc. on October 27, 2020. The City will continue to conduct annual training that covers IDDE topics.

4. Construction Site Runoff Control (Section 6(a)(4) / page 25)

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	Complete	The City's consultant reviewed existing regulations and made recommendations for revisions. Existing Land Use and Inland Wetlands regulations were already in conformance with MS4 requirements. Zoning Regulations were amended.	Review and update, as necessary, existing land use regulations and implementation policies for compliance with the MS4 General Permit construction site stormwater runoff control requirements.	Planning & Zoning Dept, Health Dept	Jul 1, 2019	Apr 30, 2019	
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Complete/ Ongoing	The City follows the interdepartmental coordination procedures as described in Section 5.2 of the SWMP. On Nov 20, 2018 an internal memo was provided for clarification to departments involved in the land use approval process.	Continue to implement interdepartmental coordination procedures as described in Section 5.2 of the SWMP.	Department of Permit Coordination, Planning & Zoning Dept	Ongoing	Initially completed Jul 1, 2017	
4-3 Review site plans for stormwater quality concerns	Complete/ Ongoing	The City conducts plan reviews for all projects subject to the land use regulations listed in BMP 4-1. During 2020 the Health Department did 81 grading permit reviews and 74 reviews for the Inland Wetlands Commission / EIC.	Complete site plan reviews for all projects subject to the land use regulations listed in item 4-1.	Planning & Zoning Dept, Health Dept as staff contact for the Environmental Impact Commission (EIC)	Ongoing	Initially completed Jul 1, 2017	







ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-4 Conduct site inspections	Complete/ Ongoing	The City conducts inspections and enforcement to assess and ensure the adequacy of the installation, maintenance, operation, and repair of construction and post-construction control measures. During 2020 the Health Department conducted 157 erosion inspections. There was at least one instance where the Health Department required a contractor to regularly sweep the adjacent street due to increased siltation.	Conduct inspections and enforcement to assess and ensure the adequacy of the installation, maintenance, operation, and repair of construction and post-construction control measures.	Health Dept as staff contact for EIC	Ongoing	Initially completed Jul 1, 2017	
4-5 Implement procedure to allow public comment on site development	Complete/ Ongoing	The City continues to post notice of both the City Line 311 hotline and the Public Utilities ByPass/SSO event phone number for stormwater related comments on the municipal stormwater website.	Post notices of Danbury's 'hotline' for stormwater related comments on the municipal stormwater website. Hold public hearings on Inland & Wetland related proposed developments.	Public Works, Health Dept (as staff contact for EIC)	Ongoing	Initially completed Jul 1, 2017	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Complete/ Ongoing	See table below for details.	Continue to inform developers/contractors of their potential obligation to register under the DEEP construction general permit and to provide a copy of the Storm Water Pollution Control Plan to Danbury upon request.	Public Works, Health Dept (as staff contact for EIC), Planning & Zoning Dept	Ongoing	Initially completed Jul 1, 2017	







Extra space for describing above BMP activities, if needed:

ВМР	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	 The City continues to inform developers / contractors of their potential obligation to register under the DEEP construction general permit and to provide a copy of the Storm Water Pollution Control Plan to Danbury upon request. The Application for Site Plan Approval and the Application for Subdivision or Resubdivision Plan Approval were revised on July 9, 2018 to include notification to developers / contractors of these potential obligations. On May 2, 2019, the Erosion and Sedimentation Control – Grading Permit application, the Environmental Impact Commission's Regulated Activity application, and the Administrative Approval for Inland Wetlands & Watercourses Activities application were also revised in to include notification to developers / contractors of these potential obligations.

4.2 Describe any Construction Site Runoff Control activities planned for the next year, if applicable.

- Continue interdepartmental coordination in plan review through Department of Permit Coordination and Planning & Zoning Department.
- Continue to review site plans and conduct construction site inspections.
- Continue to document the number (per permit year) of construction plan submittals, construction startups, and construction inspections and report these numbers in the annual report.







5. Post-construction Stormwater Management (Section 6(a)(5) / page 27)

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	In Progress	The City's consultant has reviewed existing regulations and is working with the City to develop a stand-alone stormwater manual in conjunction with amendments to City land use regulations.	Review and update, as necessary, existing land use regulations and implementation policies (including Technical Standards) for compliance with the General Permit post-construction stormwater management requirements.	Planning & Zoning Department, Engineering, Corporation Counsel's Office and Health Depart (as staff contact for EIC)	Jul 1, 2021	Anticipate completing by Jul 1, 2021	The City is developing a stand-alone stormwater manual in conjunction with amended land use regulations to address the required legal authority and guidelines regarding LID and runoff reduction in site development planning.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	In Progress	The City's consultant has reviewed existing regulations and is working with the City to develop a stand-alone stormwater manual in conjunction with amendments to City land use regulations.	Review and update, as necessary, current regulations to identify, reduce, or eliminate existing regulatory barriers to implementation of LID and runoff reduction practices.	Planning & Zoning Department, Engineering, Health Depart	Jul 1, 2021	Anticipate completing by Jul 1, 2021	The City is developing a stand-alone stormwater manual in conjunction with amended land use regulations to address the required LID/runoff reduction requirements for development and redevelopment projects.
	Not Started		Complete plan reviews and ensure compliance for all projects subject to the legal authority and/or guidelines listed in BMP 5-1.	Planning & Zoning Department, Engineering	Jul 1, 2021	Anticipate completing by Jul 1, 2021	







ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-3 Identify retention / detention ponds, rain gardens, and oil-grit separators in priority areas	Complete	The City has identified all City-owned stormwater basins and treatment systems for future maintenance and has included them in the City's mapping.	Identify stormwater basins and treatment systems in priority areas and include them in GIS/CAD mapping.	Public Works, Mapping-GIS, Health Dept	Jul 1, 2019	Dec 27, 2017	
5-4 Implement long- term maintenance plan for stormwater basins and treatment structures	Complete	The City has prepared a maintenance plan and inspection form for retention/detention basins and rain gardens.	Develop a long-term maintenance plan for retention/detention basins and stormwater treatment structures.	Public Works, Health Dept	Jul 1, 2019	Mar 14, 2018	
	Complete/ Ongoing	The City Health Department inspected all City-owned detention basins, retention basins, rain gardens, and treatment structures in June 2019.	Implement maintenance plan including annual inspection of retention / detention basins and stormwater treatment structures and removal of accumulated sediment and pollutants.	Public Works, Health Dept	Ongoing beginning Jul 1, 2019	Initially completed Jun 2019	All systems were found to be satisfactory with two minor trash/debris occurences noted and passed on to the Public Services Division for clean-up/removal.
5-5 DCIA mapping	Complete	The City's consultant calculated DCIA Citywide and for each CTDEEP local basin within the City.	Calculate the Directly Connected Impervious Area (DCIA) City-wide and of outfall catchment areas using guidance provided by DEEP and UConn CLEAR.	Engineering, Planning & Zoning Department, Mapping-GIS	Jul 1, 2020	Initially completed Feb 1, 2019, revised May 23, 2019	
	In Progress		Revise City-wide DCIA estimate as development, redevelopment, or retrofit projects effectively add or remove DCIA.	Engineering, Planning & Zoning Department, Mapping-GIS	Annually beginning Jul 1, 2020	Annually starting in 2020	







ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-6 Address post- construction issues in areas with pollutants of concern	Not Started		Address erosion and sediment problems noted during inspections conducted under BMP 5-3 through the retrofit program developed under BMP 6-8.	Public Works, Health Dept	Not specified	Anticipate completing by Jun 1, 2021	

5.2 Describe any Post-Construction Stormwater Management activities planned for the next year, if applicable.

- Continue the process of updating existing land use regulations and policies with the assistance of a consultant.
- Complete estimates of DCIA with the assistance of a consultant.
- Continue working with City consultant on the development of a Stormwater Drainage Manual.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	2,599 Acres
DCIA disconnected (redevelopment plus retrofits)	Not yet determined
Retrofits completed	0
DCIA disconnected	0%
Estimated cost of retrofits	Not yet determined
Detention or retention ponds identified	13

5.4 Briefly describe the method to be used to determine baseline DCIA.

Baseline DCIA has been estimated from high-resolution impervious cover and land use/cover data available from UConn NEMO and empirical equations (Sutherland Equations) relating DCIA and Total Impervious Area (TIA). The DCIA estimates have been developed at the CTDEEP Local Basin scale and City-wide.







6. Pollution Prevention/Good Housekeeping (Section 6(a)(6) / page 31)

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-1 Develop/implement formal employee training program	Complete/ Ongoing	The City continues to maintain their existing employee training program.	Implement training program for City employees, building on the City's current program (see topics listed in Section 7.2).	Public Works	Ongoing	Initially completed Jul 1, 2017	New and Seaonal Employee training provided online. Consultant to provide annual training.
6-2 Implement MS4 property and operations maintenance	Complete/ Ongoing	The City has determined what measures to take to improve their turf/fertilizer management BMPs and will continue to reassess the issue in the future, as warranted.	Implement turf/fertilizer management BMPs for parks and open space.	Public Works	Ongoing beginning Jul 1, 2018	Initially completed Jul 1, 2018	
	Complete	The City continues to install and maintain educational signage. The City's Parks web page also includes a reminder to owners to pickup after their pets.	Implement pet waste education program.	Public Works	Jul 1, 2018	Jul 1, 2018	
	Complete	Signage has been installed at Kenosia Park and Rogers Park Pond asking the public to not feed waterfowl. Vegetated buffers have been planted at Kenosia Park to deter waterfowl. The Director of Parks and Recreation discharges a blank fire arm at Candlewood Lake Park daily during the summer to disperse congregating waterfowl.	Implement waterfowl management BMPs in targeted areas.	Public Works	Jul 1, 2018	Jul 1, 2017	







ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-2 Implement MS4 property and operations maintenance (<i>Continued</i>)	Complete/ Ongoing	The City's consultant evaluated all City buildings that do not have both a SWPPP and a SPCC and has provided the City with a list of recommendations. The City anticipates replacing four underground storage tanks with above ground storage tanks in summer 2020.	Evaluate municipal buildings and facilities for spill prevention and pollution prevention practices and implement additional BMPs as necessary.	Public Works	Jul 1, 2018	Nov 2021	See table below for details.
	In Progress	Public Works and City's consultant have begun evaluating municipal vehicle and equipment parking, fueling and maintenance practices. The consultant has provided recommendations to the City. The City continues to monitor and manage fuel storage levels.	Evaluate and modify, as necessary, municipal vehicle and equipment parking, fueling, and maintenance practices.	Public Works	Jul 1, 2018	Anticipate completing by Oct 1, 2021	
	Complete	The City continues to implement a leaf management program.	Continue current leaf management program.	Public Works	Jul 1, 2018	Jul 1, 2017	
6-3 Implement coordination with interconnected MS4s	Ongoing	The Director of Public Health and City Engineer met with the Town of New Fairfield's Director of Public Health to discuss stormwater activities with respect to the MS4 General Permit.	Coordinate with neighboring municipalities, institutions, and DOT regarding stormwater management program activities associated with the adjacent MS4s.	Public Works	Not specified	Initially completed in 2019	



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BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-4 Develop/ implement program to control other sources of pollutants to the MS4	Complete/ Ongoing	The City continues to control sources of pollution to the MS4 through the existing IDDE program, water quality monitoring, the City's ordinances related to illicit discharge and illegal connection, and targeted education and outreach to commercial, industrial, municipal, institutional facilities owners/operators. The UNIT continues to respond to services requests for debris/garbage cleanup on properties.	Control through IDDE program, water quality monitoring, the City's ordinances related to illicit discharge and illegal connection, and targeted education and outreach to commercial, industrial, municipal, institutional facilities owners/operators (see BMP 1-1).	Public Works, UNIT	Not specified	Jul 1, 2017	
6-5 Evaluate additional measures for discharges to impaired waters*	In Progress	The additional measures listed in Section 7.2 of the SWMP have been evaluated and are in progress, such as infrastructure repair, rehabilitation and retrofit (see BMP 6-7).	Implement the measures and procedures described in Section 7.2 of the SWMP including those measures to address stormwater pollutants of concern.	Public Works	Not specified	Anticipate completing by Jul 1, 2021	
	In Progress	The City has released the Still River Watershed Plan in 2020.	Work with the Housatonic Valley Association as part of the Still River Watershed Partners to prepapre and implement a watershed plan for the Sill River.	Engineering	Not Specified	Plan completed in 2020. Plan implementation ongoing.	
6-6 Track projects that disconnect DCIA	Ongoing	The City continues to eliminate curbing (see BMP 6-10) and track the amount removed. Additionally, the City's consultant has prepared a spreadsheet for formally tracking total DCIA, which is planned to be implemented in the 2021 calendar year.	Annually track total acreage of DCIA that is disconnected as a result of redevelopment or retrofits (see BMPs 5-4 and 6-7)	Public Works, Planning & Zoning	Ongoing	Annually starting in 2018	







BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-7 Implement infrastructure repair/rehab program	In Progress	The City replaced 5,505 LF of stormwater piping. They also replaced/repaired 256 catch basins, and 3 headwalls.	Repair, rehabilitate, or retrofit MS4 infrastructure (e.g., conveyances, structures, outfalls) as needed in a timely manner.	Public Works	Jul 1, 2021	Anticipate completing by Jul 1, 2021	
6-8 Develop/implement plan to identify/prioritize retrofit projects	In Progress	Consultant under contract to develop retrofit plan. After an intial desktop screening, 25 sites were selected for further evaluation. Site visits were conducted. The Consultant is completing the retrofit plan which is to be reviewed by the City in the 2021 calendar year.	Develop retrofit plan and list of priority sites.	Public Works	Jul 1, 2020	Anticipate completing by Jul 1, 2021	
6-9 Implement retrofit projects to disconnect 2% of DCIA	In Progress	The City continues to review opportunities to not install curbing when paving roads. In 2020, 20 roads were repaved. It is estimated that approximately 2% of the existing curb was eliminated where and when possible, resulting in about 530 LF of curb eliminated.	Disconnect 1% per year of Danbury's DCIA from the MS4.	Public Works	Jul 1, 2022	Anticipate completing by Jul 1, 2022	
6-10 Develop/implement street sweeping program	Complete/ Ongoing	The City continues to inspect and sweep all municipally- owned or operated streets and parking lots at least once a year.	Continue to inspect and sweep all municipally-owned or –operated streets and parking lots.	Public Works	Ongoing beginning Jul 1, 2017	Initially Completed Jul 1, 2017	







ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
	In Progress	The City continues to review opportunities to not install curbing when paving roads. In 2020, 20 roads were repaved. It is estimated that approximately 2% of the existing curb was eliminated where and when possible, resulting in about 530 LF of curb eliminated.	Evaluate runoff reduction measures such as permeable pavement or other measures to promote sheet flow of stormwater for all new and redeveloped municipal parking lots	Public Works	Not specified	Anticipate completing by Jul 1, 2021	
6-11 Develop/implement catch basin cleaning program	In Progress	The City has inspected and cleaned 900 catch basins in 2020.	Inspect and clean catch basins as necessary.	Public Works	Ongoing beginning Jul 1, 2020	Anticipate completing by Jul 1, 2021	
	In Progress	The City has determined that the frequency of catch basin cleaning will be reduced by inspecting basins, then determining which basins are full and concentrating on those areas more frequently.	Develop a plan for optimizing catch basin cleaning (i.e., reduced frequency in certain areas) based on inspection findings, such that no catch basin is more than 50% full.	Public Works	Ongoing beginning Jul 1, 2020	Anticipate completing by Jul 1, 2021	
6-12 Develop/implement snow management practices	Complete	The City continues to follow a salt-only management program. In 2020, Public Works added equipment to the plows that regulates the salt application rate dependent on the speed of the truck. The application rate is no longer dependent on the drive, but is calibrated as needed.	Implement practices for deicing material management and snow and ice control.	Public Works	Ongoing beginning Jul 1, 2018	Jul 1, 2017	







Extra space for describing above BMP activities, if needed:

ВМР			
6-2 Implement MS4 property and operations maintenance (Municipal facility evaluations)	The City has SPCC Plans for the following facilities: Public Works Complex Veolia WWTP Veolia Beaver Brook PS Danbury Police HQ	 Danbury Municipal Airport Admin Building Fire Engine Company 26 Danbury High School Ellsworth Avenue School 	Pembroke ElementaryMill Ridge Intermediate SchoolGreat Plain Elementary School
	The City also has Airport SWPPPs for the following f Public Works Complex Veolia WWTP Municipal Airport Complex	acilities:	

6.2 Describe any Pollution Prevention/Good Housekeeping activities planned for the next year, if applicable.

- Continue to document pertinent maintenance/cleaning operations.
- Maintain a list of complaints received regarding road and highway maintenance concerns.
- Continue to conduct employee training. Add IDDE topics to employee training.
- Continue to inspect the maintenance garage monthly and maintain records of each inspection.
- Implement recommendations of the municipal facility evaluations.
- Inspect catch basins when they are cleaned and document the inspection findings.
- Complete and begin implementing stormwater retrofit plan.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Employee training provided for key staff:

- On October 27, 2020, the City's consultant provided Stormwater General Permit Annual Training to City employees from all relevant departments.
- Public Works staff attended the Public Works Academy, Road Scholar Program, and Road Master Program all through the T2 Center at UCONN.
- New and Seasonal Employees attended "Winter Maintenance Salt Reduction" online training as provided by CROG.







Metrics	
Employee training provided for key staff	Yes / October 27, 2020
Street sweeping	
Curb miles swept	498 miles
Volume (or mass) of material collected	1,519 cubic yards
Catch basin cleaning	·
Total catch basins in priority areas	85%
Total catch basins in MS4	6,875* (11,440 total)
Catch basins inspected	900
Catch basins cleaned	900
Volume (or mass) of material removed from all catch basins	2,003 cubic yards
Volume removed from catch basins to impaired waters (if known)	Unknown
Snow management	
Type(s) of deicing material used	Treated rock salt only
Total amount of each deicing material applied	4,960 tons of salt
Type(s) of deicing equipment used	Plow trucks
Lane-miles treated	240 miles of City roads
Snow disposal location	Edge of pavement
Staff training provided on application methods & equipment	Yes
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	0% - City uses N/P within 40-60% of acceptable CTDEEP levels
Reduction in turf area (since start of permit)	0%
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	Not yet determined

^{*}Value does not include State or privately owned outfalls.







6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program

Public Works has inspected and cleaned 900 catch basins in 2020. The total number of catch basins cleaned from 2017 through 2020 is 3,171.

6.5 Retrofit program

Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project.

The retrofit identification and prioritization process consists of a desktop screening evaluation to identify potential retrofit sites followed by field evaluations to confirm feasibility of retrofits, develop retrofit concepts, and prioritize retrofit projects. The initial desktop analysis used to determine which sites to further evaluate prioritized sites with the following criteria:

- 1. Municipally-owned properties
- 2. Greater than 1 acre of impervious area or greater than 30% of impervious area (using high-resolution impervious cover and land use/cover data available from UConn NEMO)
- 3. Moderately well drained to excessively well drained soils (using USDA/NRCS 2007 Soil Drainage Class data)
- 4. Mostly or entirely outside of the 100 year flood zone (using FEMA Flood Zone data)

After completing site visits to 25 possible retrofit sites, preliminary stormwater retrofit concepts were identified and are under evaluation for budgetary cost and approximate amount of DCIA that would be disconnected.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years.
N/A
Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years.
N/A







Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution. This data is available on the MS4 map viewer: http://s.uconn.edu/ctms4map .							
Nitrogen/ Phosphorus ⊠	Bacteria 🔀	Mercury 🛚	Other Pollutant of Concern (Copper, Zinc, Ammonia & Chloride)				
1.2 Describe program status.			(copper, zinc, Ammonia & chionae)				
Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.							
Nothing to report.							

2. Screening data for outfalls to impaired waterbodies (Section 6(i)(1) / page 41)

2.1 Screening data

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year's screening data showing a cumulative list of outfall screening data.

Outfall ID	Latitude / Longitude	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
N	Nothing to rep	ort				

2.2 Credit for screening data collected under 2004 permit

If any outfalls to impaired waters were sampled under the 2004 MS4 permit, that data can count towards the monitoring requirements under the modified 2017 MS4 permit. Complete the table below to record sampling data for any outfalls to impaired waters under the 2004 MS4 permit.

Outfall	Latitude / Longitude	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?
	Nothing to report					







*Follow-up investigation required (last column) if the following pollutant thresholds are exceeded:

Pollutant of concern	Pollutant threshold
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	 E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	 Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample

3. Follow-up investigations (Section 6(i)(1)(D) / page 43)

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall	Status of drainage area investigation	Control measure implementation to address impairment				
Nothing to report						

4. Prioritized outfall monitoring (Section 6(i)(1)(D) / page 43)

Once outfall screening has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2020.

Outfall	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)
Nothing to re	port			







Part III: Additional IDDE Program Data

1. Assessment and Priority Ranking of Catchments data (Appendix B (A)(7)(c) / page 5)

Provide a list of all catchments with ranking results (DEEP basins may be used instead of manual catchment delineations).

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank			
See attached summary table.					

- 2. Outfall and Interconnection Screening and Sampling data (Appendix B (A)(7)(d) / page 7)
- 2.1 Dry weather screening and sampling data from outfalls and interconnections

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies.

Outfall / Interconnection ID	Latitude / Longitude	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken
Not	thing to report										







2.2 Wet weather sample and inspection data

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor.

Outfall / Interconnection ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of concern
Noti	hing to repor	t								

3. Catchment Investigation data (Appendix B (A)(7)(e) / page 9)

3.1 System Vulnerability Factor Summary

For those catchments being investigated for illicit discharges (i.e. categorized as high priority, low priority, or problem) document the presence or absence of System Vulnerability Factors (SVF). If present, report which SVF's were identified. An example is provided below.

Outfall ID	Receiving Water	System Vulnerability Factors
Nothing to	report	

Where SVFs are:

- 1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
- 2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
- 3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
- Common or twin-invert manholes serving storm and sanitary sewer alignments.
- 5. Common trench construction serving both storm and sanitary sewer alignments.
- 6. Crossings of storm and sanitary sewer alignments.
- 7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;







- 8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
- 9. Areas formerly served by combined sewer systems.
- 10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
- 11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance).
- 12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance).

3.2 Key junction manhole dry weather screening and sampling data

Key Junction Manhole ID	Latitude / Longitude	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants
	Nothing to report					

3.3 Wet weather investigation outfall sampling data

Outfall ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Surfactants
	Nothing to report				

3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

Discharge location	Latitude/ Longitude	Source location	Discharge description	Method of discovery	Date of discovery	Date of eliminatio n	Mitigation or enforcement action	Estimated volume of flow removed
Nothi	ing to report							







Part IV: Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Chief Elected Official or Principal Executive Officer	Document Prepared by
Print name:	Print name:
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